



INSTALLATION INSTRUCTIONS

ROTAX 999T ACE FUEL RAIL

P/N: 20-1132

Document: 19-0432

Support: info@radiumauto.com

CAUTION

Only a qualified technician following applicable safety procedures should perform the installation of this product. One must have knowledge in repair and modification of fuel systems and general vehicle modifications to install this product.

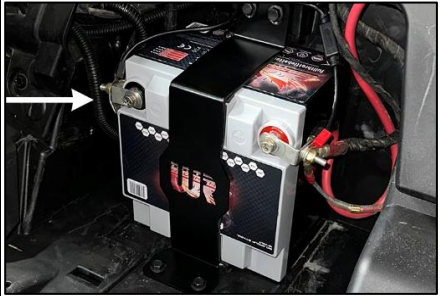
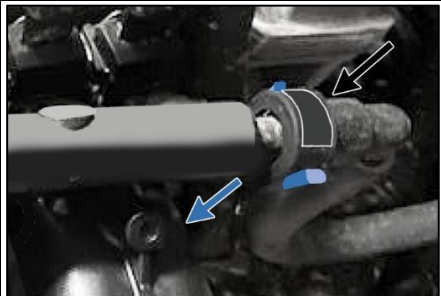
Gasoline and other fuels are flammable and can be explosive.

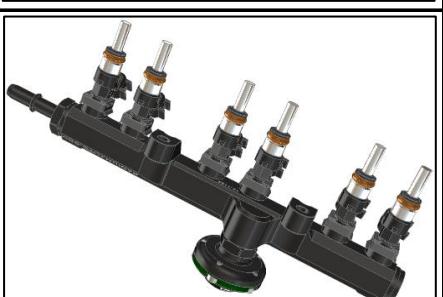
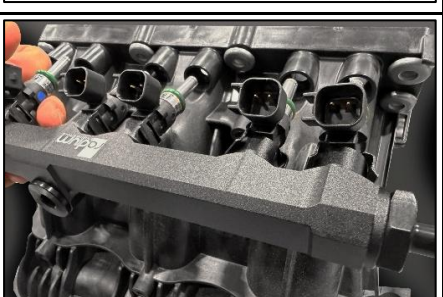
Only install in a well-ventilated location to minimize buildup of fuel vapors.

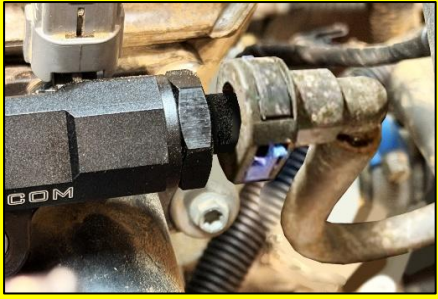
No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended. Proper eye and personal protection is required at all times during installation.

WARNING

The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure. Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for sale or use on emissions controlled motor vehicles. Consult local, state, and federal laws.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Socket Wrench	Removal of the fuel lines, fuel rail, and fuel injectors will not be covered specifically.	
2	Flat Blade	To unplug the 6 fuel injector connectors, depress the locking thumb tabs and pull to release.	
	Rag		
		Gently pry the blue SAE safety lock downwards (shown blue arrow). Next, push down on the black release button (shown black arrow) on the top side of the SAE quick connector.	
		Pull to remove. Be ready as fuel will leak from this connection.	
3	8mm Socket Wrench	Unbolt the fuel rail from the intake manifold.	
	T30 Torx		
	Rag		
4		The OEM mounting screws (shown) will be reused.	

5	Rag	As shown, carefully pull the fuel rail and injectors from the intake manifold in 1-piece. Bring the assembly to a clean work bench.	
		Pry the fuel injector clips from the fuel rail. Carefully pull each injector from the fuel rail. Have a rag handy.	
6		Adapter fittings are NOT included with the fuel rail. As shown, the optional 20-1132-PK FUEL RAIL PLUMBING KIT, ROTAX 999T ACE includes the necessary adapter fittings to reuse the OEM fuel line.	
		For custom plumbing installations, the fuel rail has three 3/4"-16 (8AN ORB) end ports. Go to www.radiumauto.com to find an array of compatible adapter fittings, regulators, pulse dampers, etc.	
7	Oil Lubrication	<u>20-1132-PK FUEL RAIL PLUMBING KIT, ROTAX 999T ACE</u> Lubricate all O-rings and install the provided fittings as shown.	
	7/8" Wrench		
	5/16" Allen Wrench		
8		This fuel rail is compatible with factory fuel injectors. Luckily, these physical OEM dimensions are equivalent to popular aftermarket Bosch EV14 fuel injectors.	
9	Oil Lubrication	Lubricate the 3 fuel rail injector bores and the upper injector O-rings and push them together.	
		Properly orient the connectors and slide the injector clips in place.	
		NOTE: Optional 20-0776 fuel pulse damper shown in the center port.	
10	Oil Lubrication	Lubricate the lower injector O-rings and the corresponding intake manifold seats.	
		As shown, lineup the fuel rail assembly to the intake manifold ports. Press downward to fully seat the injectors.	

11	8mm Socket Wrench	As shown, secure the rail using the OEM screws. Do not over torque.	
	T30 Torx	Plug in the fuel injector connectors until they click in place.	
12		<u>20-1131-PK FUEL RAIL PLUMBING KIT, ROTAX 900 ACE</u>	
		Inspect the condition of the OEM fuel feed line. Clean any debris and replace any parts that may be permanently damaged.	
		Push the OEM feed line onto the fuel rail inlet port until it clicks in place. Push the blue SAE lock back up into place. Gently give the line a tug to confirm the connection has been made.	
13	10mm Wrench	After all the necessary fuel rail plumbing is installed, reconnect the battery. Cycle the keyed ignition switch ON/OFF a few times (without starting the engine). This allows the fuel pump to prime the system. Check for leaks.	
		Start the engine and confirm again while the engine is running.	
		INSTALLATION COMPLETE	